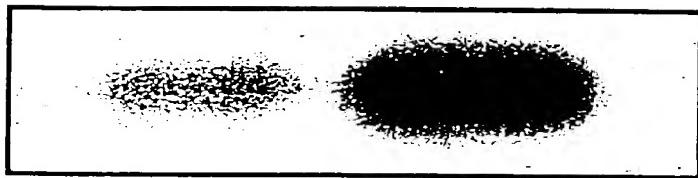
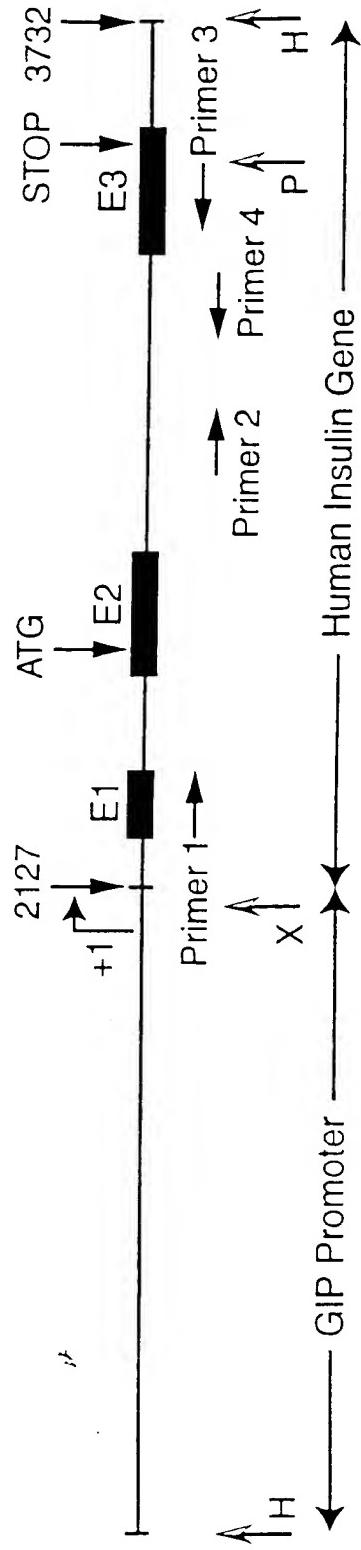


**Figure 1**

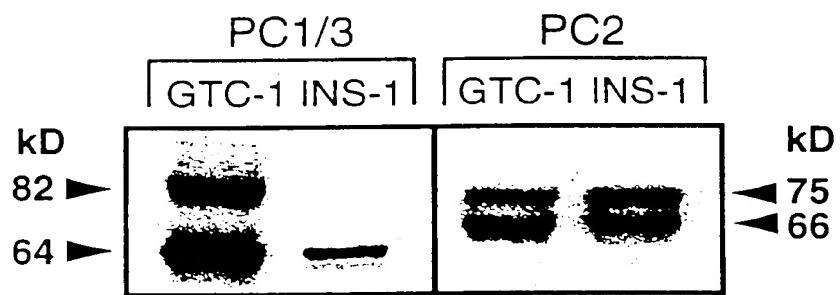
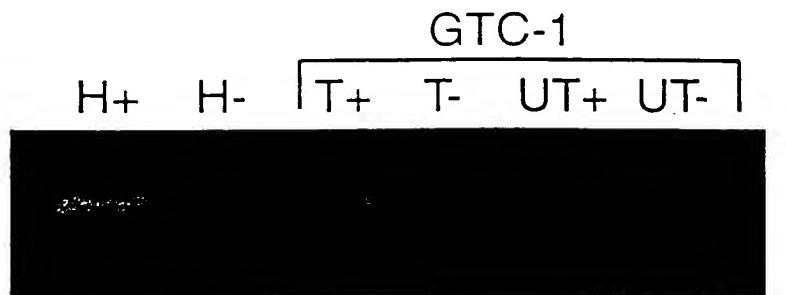
STC-1      GTC-1



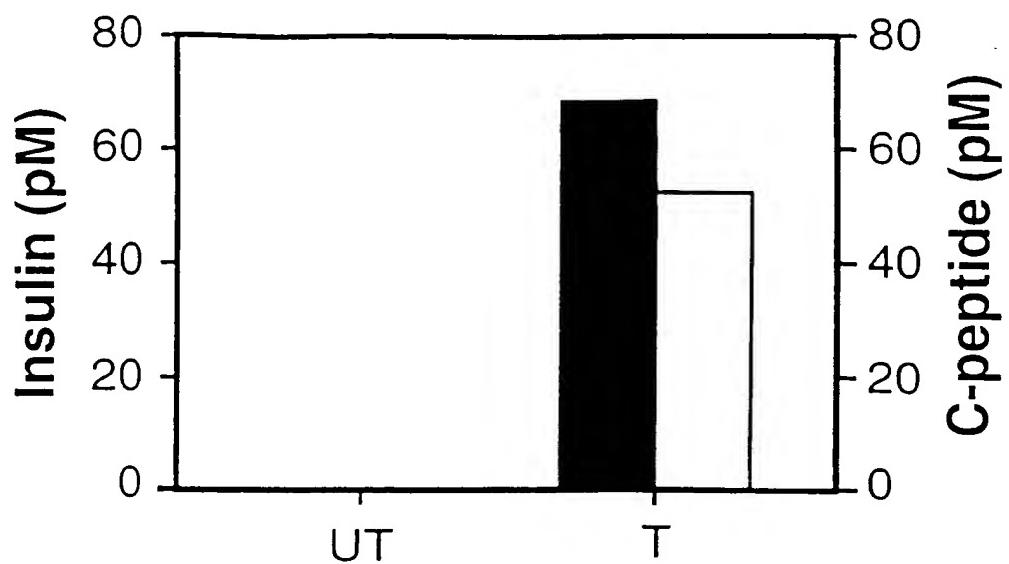
**Figure 2**



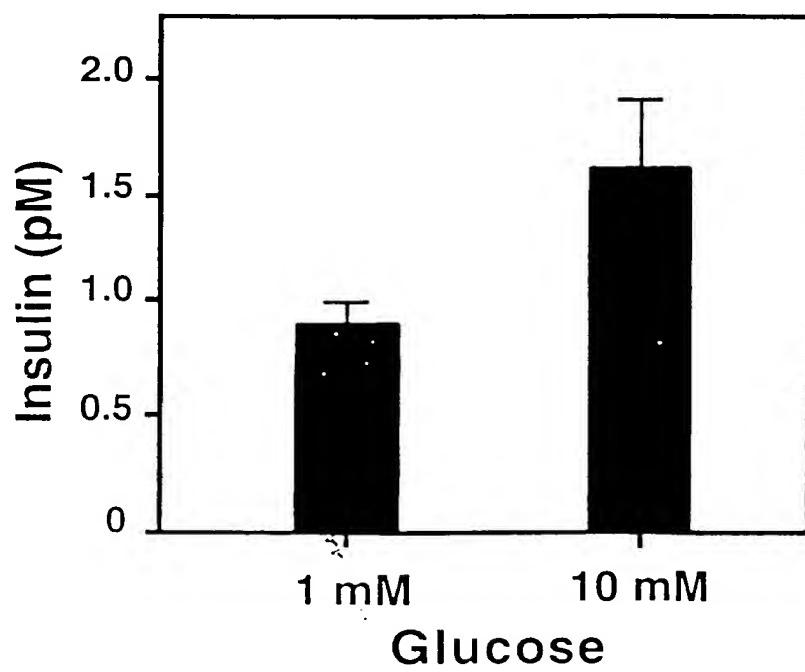
**Figure 3**



**Figure 4**

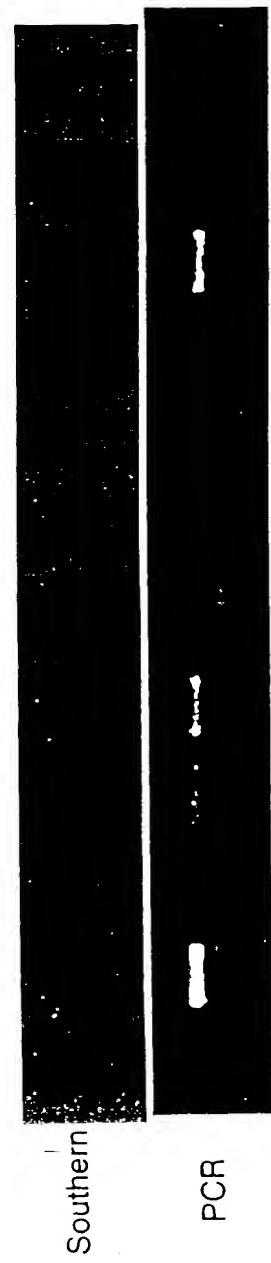


**Figure 5**

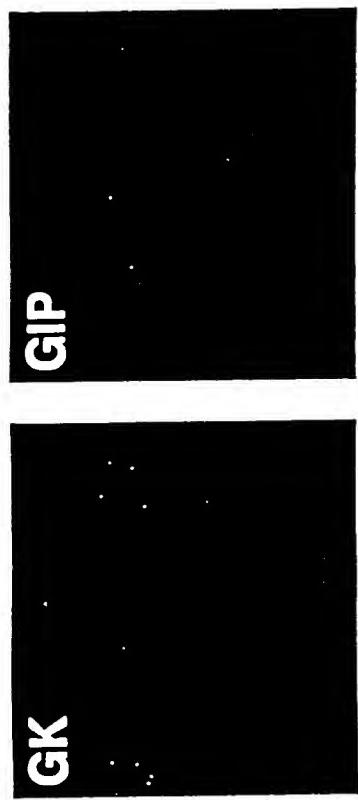


**Figure 6**

**Figure 8**



**Figure 7**



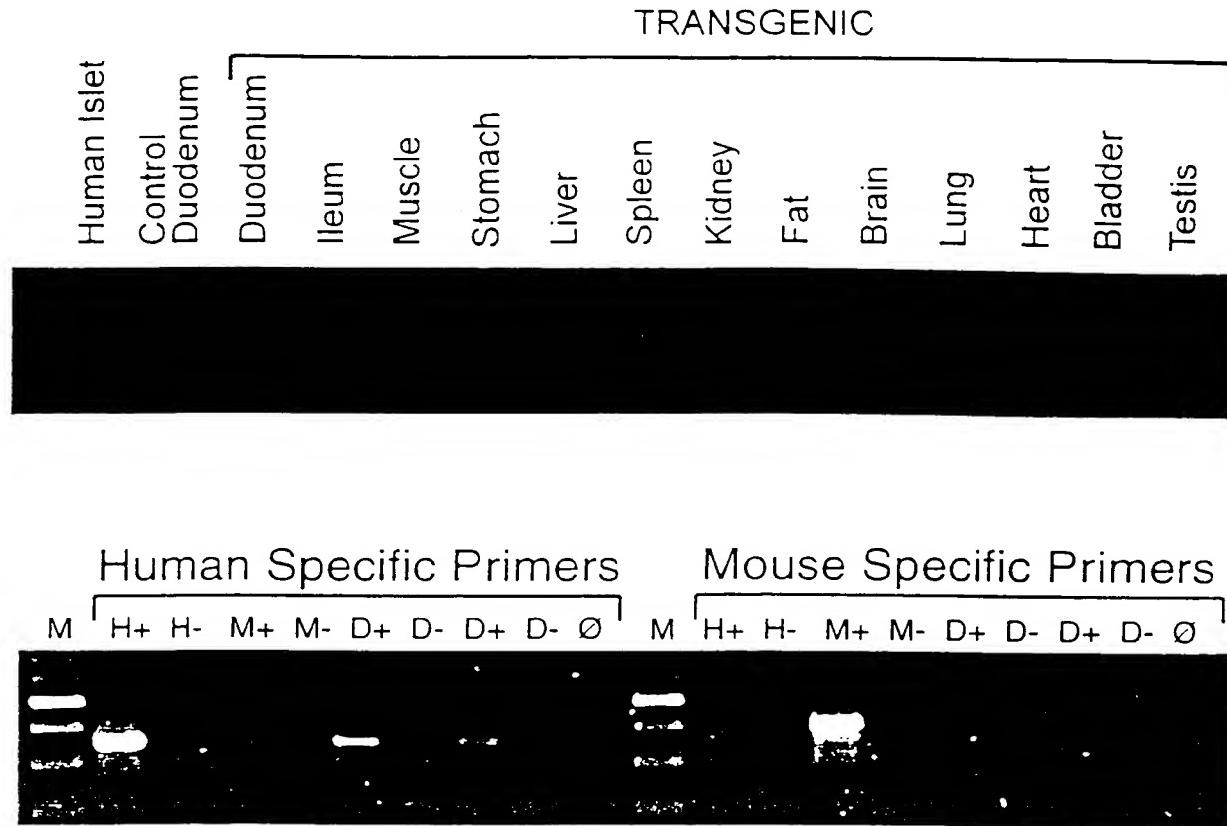


Figure 9

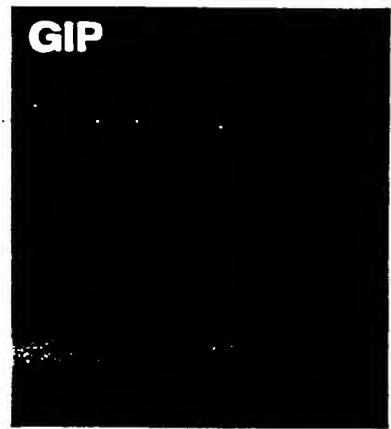
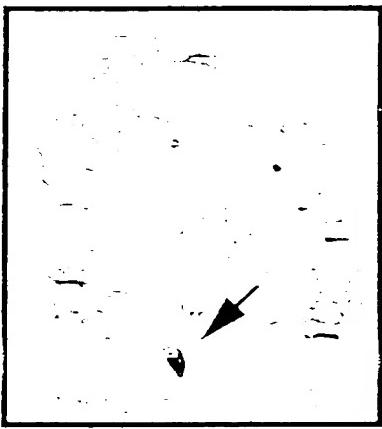
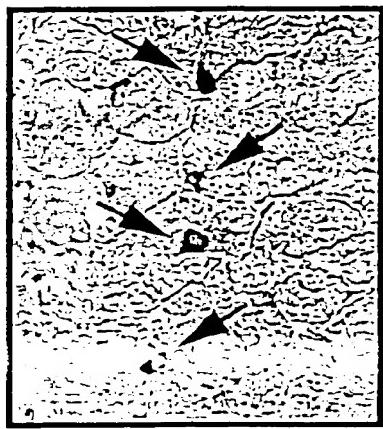
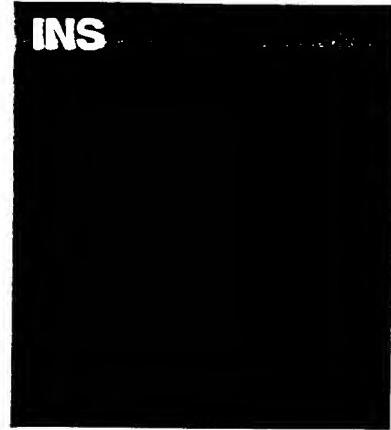
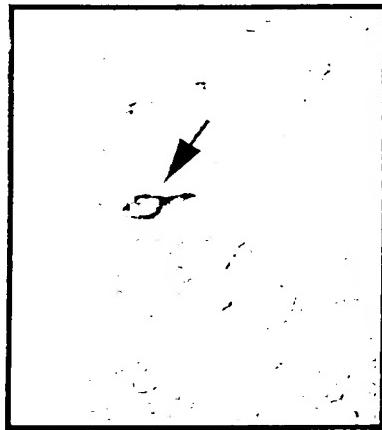
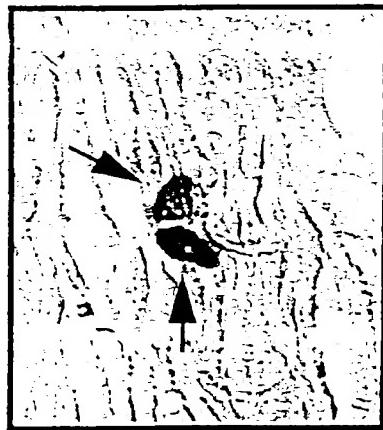
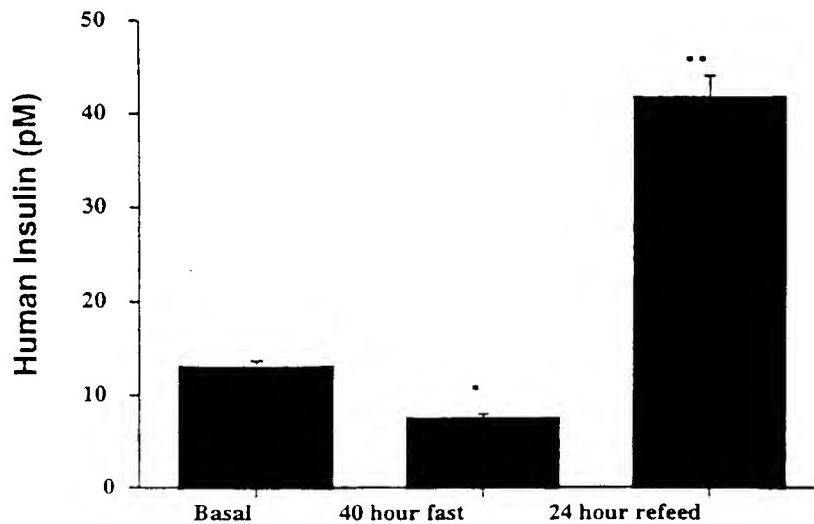
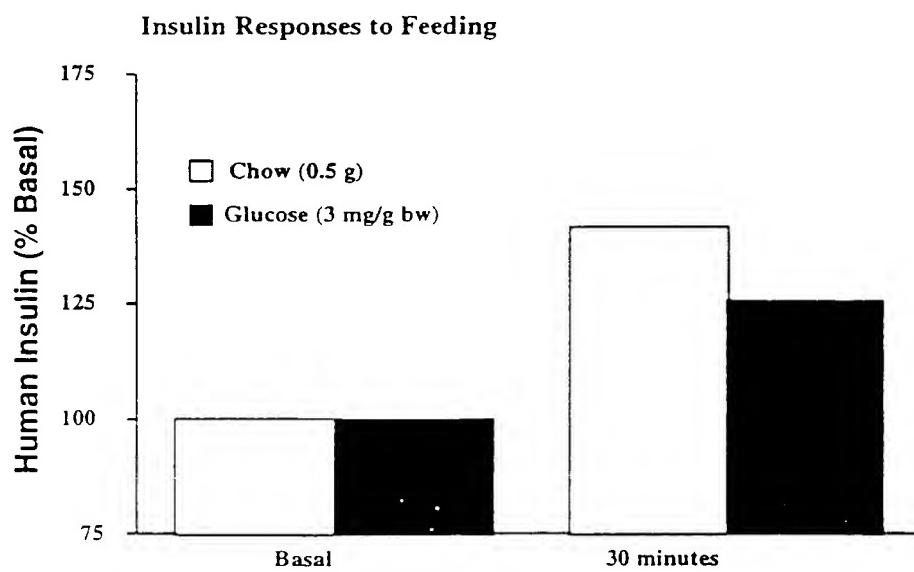


Figure 10



**Figure 11A**



**Figure 11B**

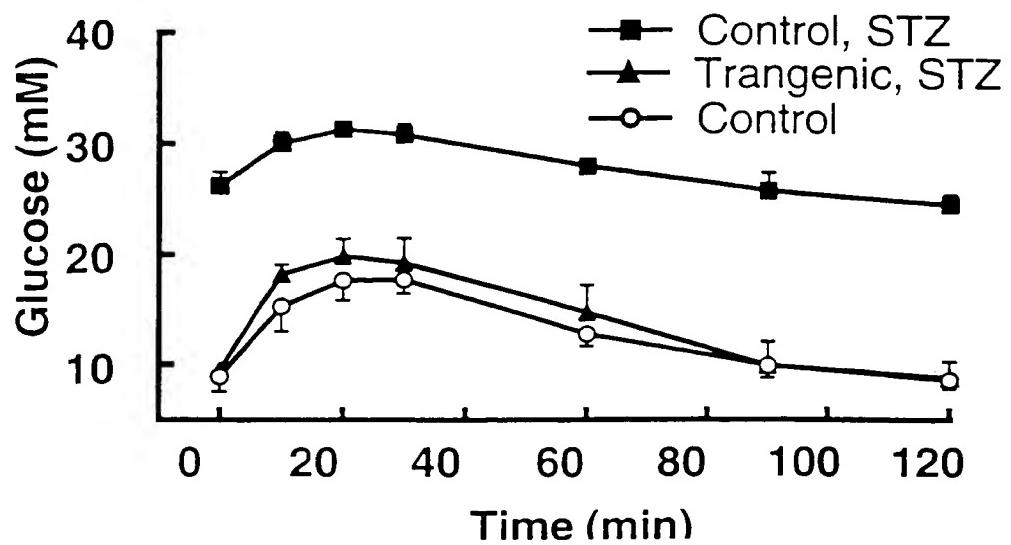


Figure 12

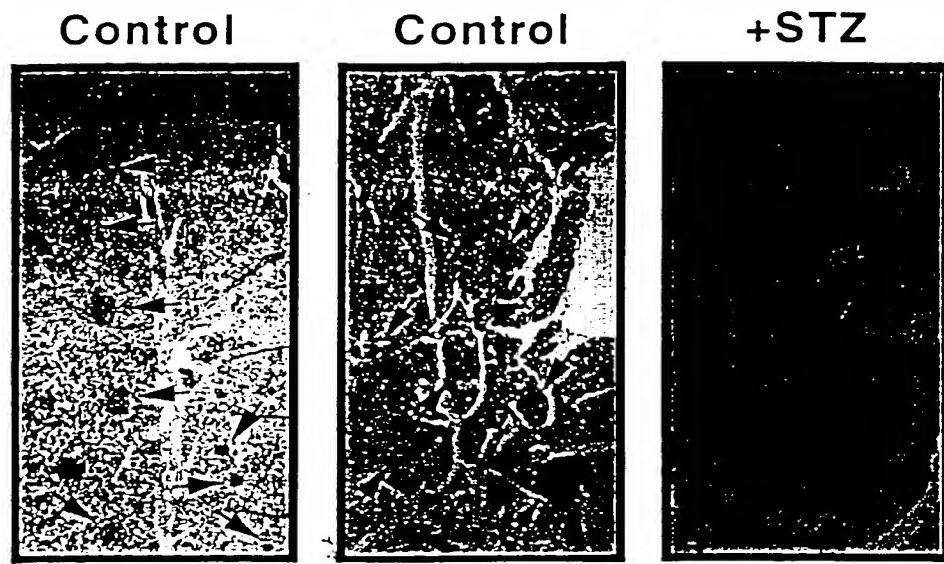


Figure 13

GIP Promoter

atctctccag tcccttcctc aacccttctga gaacaggcaa actccaccat gattggcta  
taaatcgta tatggaccta ctaaggatgt aacaactggg agcatgtta cctagcatgt  
ccgaaaccccg gagttcagtc cctagcactg cacaatctca gtccttatga agtagaggg  
agatcagagg ttcaaggaca acatcaattt gagaccagcc tggctactt accaaagaaa  
gaaagagaga aataaataaaa tagatagata aataaataaaa taagtaaata aatatcttat  
ggctggagag ttggtcagt tttaagagc acttattgtg gggttgggta tttagctcag  
ttgttagagcg ttgcctagg aagctcaagg ccctgggttc ggccccagc tccggaaaca  
aaacaaaaca aaacaaaacaa aaacaaaacaa aaaaaaaacc ctgtctggaa aacacctaaa  
taaagatata tatataata atataatatacata tatataatata tatataatata atatcttgt  
ggaggaagct ataccttctt ttcttgagcc tccaacacat aatgtgcc tgcacatccca  
ttcatattgc cccaagtggg aaaccatgtg actataaact ctaagttcct agtcaactagg  
aactctcaag acacccatct cagcagcat cacttccgga gtgccaccat tatcagttaa  
catccacatc ttggattcag atcccagatc cttctgttc ctcagaagt cacctacagc  
tttgggggg tgccccctcc ctcagagagt gccaccccgag ttgaccctca ccaaggcaac  
cctttgtacc cacagaatcc aacaggaagt agggggaga aacggccggcc ctgtggccag  
aaaaaaagag gggaggaga aggggggtgc cagctacca cggggcaggt cccagataac  
actgcagata cccaaatgtt aatcacccat tagcacagc ccagagcaaa gggaaagt  
attaggtta taatgggtt cactgggcag gaccagtggg tttagcttc aaagataaga  
gtttttcagg taatcagca ccctgtggtg ttggatata aggaagctaa cacaggct  
tgaagcaaga tcctgag

Mouse chromogranin A (Chga) gene, promoter region.

ACCESSION L31361

1 ccgaaattac ccactacgtt ggaattctat aagggttggg ttgtgtttt ttgttacagc  
61 tgcgttttg gcacccagca cagctgagtg ttcttaagcc cacgtcgatg cttaaacacat  
121 ggttgttggaa tgaatacacag cgaagccgggt tctcatttttag gggcatgagt aggcagaggt  
181 gtgggcagga agcagggaaag agcggaaaca ggtgcggaca gaaaggaggg gctctgaagg  
241 atgcacgtca gtgc当地act gtcatccaga taccagggttc actgtggccc taggcagac  
301 tgcacggggc ttccatgtg gtctgcccag ggtgagagca gaactcggtt gggcgcccc  
361 gaaggaaacc aaccaggaag cagggttgc cccaaattat ccaggttttt agtacattt  
421 agagacaagg ctgggtgtt gaaggtcaga ggtgtccctg ggggtctgga ctaggactga  
481 ccactctgt tttagtttaa tggtgagaac tgc当地cacac tgc当地tgc ctacttgcc  
541 ccttgagagc tgc当地gctta ggaccaccc atgtgtgggt tggaccctca gtc当地cacact  
601 gaacgtgtt gaagccactg ttgtcagag cagggtcttc ggc当地tgagg aagcagtgac  
661 cactatcccc tatcaaataa caattaaata cacacagaat gcgaggccaca caactgagg  
721 tcaggagagg ctc当地ctcag gcaagggtt caagaggctt ctgtgggacc cgctggatgt  
781 tccaggagg tcttaaagat gggcgtgcct ccagccaagt gaaatcaaga gaaaagtac  
841 cgaagtatag gaaaactcag cagctggag agttaatag gggaggaatc cgaggctcag  
901 agacaggagt gacttgc当地 cggacgcaca gcaagttggc aggtggagtt cagctgtgcc  
961 accttctgaa gccgggtacc ct当地acaccc accagataca agcgggatag agacagctga  
1021 tggagaagct ggagggtgggg ggc当地gaccc cgaagggtgg gaaaggcgc gggggggcgg  
1081 tc当地atgacg taatttccctg gggtgtgcg cgc当地gtgcg tgc当地gtgcg tgc当地tatataaa  
1141 agccggcata gcattgtc cgc当地ccgccc gccaccggcc ccatcaccgc tgc当地taccacc  
1201 accgctactg cagtttccctg gtc当地gtgcag agctttggta gccagactac agacccactc  
1261 cc当地ccatctt ctc当地cagcag ctc当地ccactt cttccgac cgtccggcgc gctatgcgc

//

Figure 14

Mus musculus secretogranin II (Scg2) gene, promoter and exon 1, complete sequence.  
ACCESSION AF037451

Mus musculus glucokinase gene, 5' flanking region.  
ACCESSION U93275

Figure 15

721 ataaaatggga atgtaaagagc ctttgtctat gaatggtagt ctaactagat gtgttacaag  
781 aaatgttgac gtatgacgt gtggaaactt ggtattgaag atgtggactc gaaactttgt  
841 ggatttttg atgccatgtat aaaaatgtga agaatactgt tccttaccaa aaagaagaag  
901 aagaaggaga aggaggaggaa agaggaggag gaggaagaag agggggagga agaagaagag  
961 aaggaggagg aagaggaggaa ggaggaagaa gagaggaggag aggaagaaga agagaaggag  
1021 gaggactagg aggaggaggaa gaagaaggag aaggggaagg agagagtgc cagaacattt  
1081 ggggtccat cagaataccca gatactcccg acatagtcac agaaggactg ttgttgg  
1141 taaatagggt ctgtaaaaag ttgtgggaa aacctgcagt gagatgtgt gtcttagaaa  
1201 tgataggcaaa gattcatcca caagaatgcg acaagatggc tgcctgaaca agccctgaac  
1261 attaacagca ccagtagacc tgcttacacg gaagaaagca atctcatagg ccctcacccc  
1321 aaacaaagac tacagacacg agaggaactg gagagcagga gaaattgggt ctccctttt  
1381 tgagccccct aactgggtgt caaatactca atggtcagcc ctgaaatcat atgcacaaag  
1441 taatacttagc gcaactgaac agatgttagc tttgtgtgt tttgttaatga taacaaagaa  
1501 gaaaaggccc catgttagag agggagcaag gtggcatgg agtgttggaa ggagtggaa  
1561 ggaggggtga gaagggaaa gtatgtta tatctttttt ttataaaaa aataaaaaat  
1621 gggctgtga gatggctcg tggtaagag cacccgactg ctcttccga aggtctggag  
1681 ttcaatccc agcaaccaca tggggctca caaccatccg taacgagatc tggccccc  
1741 ttctggagtgt ctgttagaca gctacagtgt acttacat aataaataaa taaatcttt  
1801 aaaaaaaaaata aaaaataaaaa ttttagaata aatgttagag gaatattttt aatttaacaa  
1861 ctgggtgtg gcaaaagctt tcttcaacaa aaacttaatc cttcagataa gaaaagacta  
1921 gaatccacga cgtggataga tactttctgtt tgatgcaaga cactattttt caggttggtaa  
1981 cttagcaga actttagttt taactttgtt ggaaacacaa cacccttggc aaacaaaaga  
2041 ttactagata ttttagatga aatataaaaa tactttccac aactgtatgg taggaaacag  
2101 ttcaatagta atataatttt tgaacaaata atcctttttt gaagaaatcc agagggatag  
2161 caagtttaggg gaagagaggg tttgtgtgtg tttgtgtgtc cgcacattt tagccaaaat  
2221 agatgtataa cttaatggaa catggcattt aaacccattt tttgtatcata agtttacata  
2281 tgctaatgaa tactttttt aaaaacattt ggattggaga gaaatggctc agtgggttaag  
2341 agtcaattt ccagcaacca catgtatgtc cacaaccatc tttgtatggta tttgtatgcct  
2401 ttttttgtt tgatgttggaa aagtggaccgt gtacttataa ttataaataa ataaatcttt  
2461 aaccaaaaaa ccccccataat ttcaacaaca gatatgtctt ggtctggc tttccaggcat  
2521 agaaatagaa acacacagag tttgtggagccca gtgcgggttca ggtccggccat tccagttcg  
2581 gttttttttt gttttttttt gttttttttt gttttttttt gttttttttt gttttttttt

H.sapiens adenosine deaminase (ADA) gene 5' flanking region and exon 1 (and joined CDS).  
ACCESSION X02189

1 tccaggaat gcgcgttcca ggccggcggg cggggcgggg gctccggcga gagggcgccc  
61 cccgggaacg gcggcgccggcggcggagg cggggcccccgg cccgttaaga agagcgtggc  
121 cggccgcggcaccgcgtggcccccaggaaa gccgagcggcaccggagccgc  
181 accgagcggcggcggaggaga gcgacgcggggcgcacgag ggccacc

Homo sapiens mRNA for pre-proinsulin.  
ACCESSION X70508

MALWMRLPLALLALWGPDPAAAFVNQHLCGSHLVEALYLVCGERGFYTPKTRREA  
EDLQVGVQVELGGGPGAGSLQPLALEGSLSQKRGIVEQCCTSICSLYQLENYCN"

l gctgcatcag aagaggccat caagcacatc actgtccatc tgccatggcc ctgtggatgc

61 gcctcctgcc cctgtggcg ctgctggcc tctggggacc tgacccagcc gcagccttg  
121 tgaaccaaca cctgtgcggc tcacaccctg tggaaagctct ctacctatgt tgcggggAAC  
181 gaggcttctt ctacacaccc aagacccgccc gggaggcaga ggacctgcag gtggggcagg  
241 tggagctggg cgggggcctt gggtcaggca gcctgcagcc ctggccctg gaggggtcccc  
301 tgcagaagcg tggcatgtg gaacaatgtt gtaccagcat ctgtcccttc taccagctgg  
361 agaactactg caactagacg cagcccgcaag gcagcccccc accccggcgc tcctgcacccg  
421 agagagatgg aataaaagcccc ttgaaccagc

Homo sapiens leptin (LEP), mRNA.  
ACCESSION XM 004625

"MHWGTLGFLWLWPYLFYVQAVPIKQVQDDTKTLIKTTVTRINDISHTQS VSSKQKV  
LDFIPGLHPILTLSKMDQTLAVYQQILTSMPSRNVIQISNDLENLRDLLHVLAFSKSCHLP  
WASGLETLDSLGGVLEASGYSTEVVVALSRLOGSLODMLWOLDLSPGC"

Figure 17

2101 gctatcacac agtgggtggt ggatctgtcc aaggaaacctt gaatcaaagc agtttaacttt  
2161 aagactgagc acctgttca tgctcagccc tgactgggtgc tataggctgg agaagtcac  
2221 ccaataaaaca ttaagattga ggcctgccc cagggatctt gcattccag tggtaaaacc  
2281 gcactcaccc atgtgccaaag gggggattt taccacagca gctgaacagc caaatgcac  
2341 gtgcagtta cagcagggtgg gaaatggat gagctgaggg gggccgtgcc cagggccca  
2401 cagggAACCC tgcttgcact ttgttaacatg ttacttttc agggcatctt agcttctatt  
2461 atagccacat ccctttgaaa caagataact gagaatttaa aaataagaaa atacataaga  
2521 ccataaacagc caacagggtgg caggaccagg actatagccc aggtcctctg atacccagag  
2581 cattacgtga gccaggtaat gagggactgg aaccaggag accgagcgct ttctggaaaa  
2641 gaggagtttc gaggttagat ttgttaaggagg tgagggatgt gaattgcctg cagagagaag  
2701 cctgttttgt tgtaagggtt ggtgttgga gatgcagagg taaaagtgtg agcagtgt  
2761 tacagcgaga ggcagagaaa gaagagacag gagggcaagg gccatgtga agggacctt  
2821 aagggttaag aagtttgata ttaaaggagt taagagttagc aagttctaga gaagaggctg  
2881 gtgtgtggc cagggtgaga gctgtctgg aaaatgtgac ccagatcctc acaaccacct  
2941 aatcaggctg aggtgttta agcctttgc tcacaaaacc tggcacaatg gctaattccc  
3001 agagtgtgaa acttcctaag tataaatgt tgcgtttt tgtaactta aaaaaaaaaa  
3061 aaaagtttgg cccgggtgcgg tggctcacgc ctgttaatccc agcactttgg gagggcaagg  
3121 tggggggatc acaaggcac tagatggcga gcatcctggc caacatggt aaaccccgtc  
3181 tctactaaaaa acacaaaagt tagtgcggc tggtggcggg cgcctgtat cccagccact  
3241 cgggaggctg agacaggaga atcgcttaa cctggggagc ggagagtaca gtgagccaag  
3301 atcgcgcccc tgcactccgg cctgtatgaca gaggcagattt ccgtttttttt aaaaaaaaaa  
3361 aaaaagtttt tttttttttt aatctaaata aaataactt gccccctg

Homo sapiens cholecystokinin (CCK), mRNA.

ACCESSION XM\_003225

"GSAAGLLRLETPSQLRPNPKAMNSGVCLCVLMAVLAAAGALTQPVPPADPAGSGLQRAE  
EAPRRQLRVSQRTDGESRAHLGALLARYIQQARKAPSGRMSIVKNLQNLDPSHRISDRD  
YMGWMDFGRRSAEEYEYPS"

1 ggctcagctg cccggctgct cccgggtggaa acgccaagcc agctgcgtcc taatccaaaa  
61 gccatgaaca cggccgtgtg cctgtcgctg ctgtatggcgg tactggcggc tggcccccctg  
121 acgcagccgg tgcctcccgc agatcccgcg ggctccgggc tgcaaggccggc agaggaggcg  
181 ccccttaggc agtgcgggtt atgcagaga acggatggcg agtcccggc gcacctggc  
241 gcccgtgg caagatacat ccagcaggcc cggaaagctc ctgtggacg aatgtccatc  
301 gttaaaacc tgcagaacct gaccccccggc cacaggataa gtgaccggga ctacatggc  
361 tggatggatt tggccgtcg cagtgcggag gatgtatgtt accccctcta gaggaccccg  
421 cccgcattcag cccaaacgggaa agcaacccctcc caaccccgag gaggcagaat aagaaaaacaa  
481 tcacactcat aactcatgt ctgtggatgt tgacattgtat tttatcttatttattaatgttc  
541 tcaatgtgaa aaatgtgtct gtaagattgtt ccagtgcac cacacaccc accagaattt  
601 tgcaaatggaa agacaaaatgtt tttttttttt ctgtactcc tggctgtttt atgttgttat  
661 gctattaaag tgatttcattt ctggc

CCK Promoter (Rat)

ACCESSION S70690

1 aattcgcgc ctaagccgca ttatccacgt ttccagacat gtcacaaata cagctaattc

Figure 18

Human messenger RNA for growth hormone (presomatotropin).  
ACCESSION V00519

"MATGSRSTSLLAFLCLPWLQEGLAFPTIPLSRPFDNAMLRAHRLHQLAFTYQEFE  
AYIPKEQKYSFLQNPQTSLCFSESIPTPSNREETQQKSNLLELRISLILIQSWE  
FANSLVYGASDSNVYDLLKDLEEGIQTLMGRLEDGSPRTGQIFKQTYSKFDTNSH  
NDAA  
LLKNYGLLYCERKDMDKVETFLRIVOCRSVEGSCGE"

1 cgaaccactc agggctctgt ggacagctca cctagctgc atggctacag gctccggac  
61 gtccccgtc ctggctttg gcctgctcg ctcggccctgg cttaagagg gcagtgcctt  
121 cccaaaccatt cccttatcca ggcctttga caacgctatg ctccgcgcc atcgctgc  
181 ccagctggcc tttagcacacct accaggaggt tgaagaagcc tatatcccaa aggaacagaa  
241 gtattccatc ctgcagaacc cccagaccc cctctgtttc tcagagtcta ttccgcacacc  
301 ctccaaacagg gaggaaacac aacagaaatc caaccttagag ctgcgtccgc tctccctgc  
361 gctcatcccg tcgtggctgg agcccggtca gttcctcagg agtgtctcg ccaacagcc  
421 ggtgtacggc gcctctgaca gcaacgtcta tgacctccta aaggacctag aggaaggcat  
481 ccaaacgcgtg atggggagggc tggaaagatgg cagccccccgg actgggcaga tttcaagca  
541 gacctacagc aagttcgaca caaaactcaca caacgatgac gcactactca agaactacgg  
601 gctgtctac tgcttcagga aggacatggc caaggtcgag acattctgc gcacgtgca  
661 gtgcgcgtct gtggagggca gctgtggctt ctagctgcgc gggtgccatc ccttgaccc  
721 ctccccagtg cctctcctgg ccctggaagt tgccactcca gtgcccacca gccttgtcct  
781 aataaaaatta agttgcac

11

Figure 19

Rat GIP Promoter -1 to -1894 bp.

(-1894)

5' \_GAGTGGCGACAGGCTGCTAGCAGGCTCACACTGAGCTAACCCACCCATAT  
ATATACA TAGTTACTATTAGCTTATTTATTTTAAGATTATCATTATATATAG  
TACACTGTAGTGTCTAGATAACACAGAAGAGGCATCGGTCTTACAGAGAGCCACC  
ATGTGGTTGCTGGGATTGAACTCACCTCTGGCAGAGCAGTCGGTGCTTAACG  
CTGAGCCATCTCTCCAGCGCCCCAAAGCCCAGCTTTAAAAATATTTAAAATTCT  
TTCTACAGATTGTTATGTATATGAGTGTGTTGTGATGCGTTGATGTGTGTA  
CTGTGCA TGGCACATGCCAGTGGGCCACAGACAGAGGGACATGAGATTCCCCTGAA  
ACTTGGAGTTACAGATGGCTGTGGCTGCCATGTGAGTGAGCGCCTTGGAACCAA  
CCTGGTCCTGCACAAAAGCAACAAGCACTCTTAATCGTTGAGGCCACCTCTCCAACC  
CCTGATATTCTTCTGTTGGTCATTAAAATTGATAAACAGAGGGTTCTTATT  
TAAAGATTATTTATTTATGTGAGTACACTGTTGCTCTTCAGACACATAGAAGAG  
GGCATTGCTGGATTCTGCTACAGATGGTTGTGAGCCACCATGTGGTGCTGGAGTT  
AAACTCAGGACCTCTGGAAGAGCAGTCAGTGCTCTAACCACTGAGCCATCTCTCCA  
GTCCCTTCCTCAACCTCTGAGAACAGGAAACTCCACCATGATTGGCTTATAAATC  
GTTATATGGACCTACTAAGGATGTAACAACACTGGGAGCATGCTTACCTAGCATGTCCG  
AAACCCGGAGTTCAAGGACAACATCAATTGAGACCAGCCTGGGACTTACCAAA  
GAAAGAAAAGAGAGAAATAAAATAGATAGATAAAATAAAATAAGTAAATAA  
ATATCTTATGGCTGGAGAGTTGGTCAGTGTGTTAAGAGCACTTATTGTGGGGTTGG  
GATTATCTCAGTGGTAGAGCGTTGCCCTAGGAAGCTCAAGGCCCTGGGTCGGTCC  
CCAGCTCCGGAAACAAAACAAAACAAAACAAACAAACAAACAAAAAC  
CTGTCGGAAAACACCTAAATAAAGATATATATATAATATACATATAATAT  
ATATATGATATATATATATATATCTTGTGGAGGAAGCTACCTTCTTCTT  
GAGCCTCCAACACATAAAATGTGCCCTGTCATCCCATTCAATTGCCCAAGTGGGAA  
ACCATGTGACTATAAACTCTAAGTCCCTAGTCACTAGGAACACTCTCAAGACACCTACC  
TCAGGCAGCATCACTCCGGAGTGCCACCATATTCAAGTTAACATCCACATCTGGGAT  
TCAGATCCCAGATCCCTCTGTCAGAAGTCACCTACAGCTTGTGGGGTGC  
CCCTCCCTCAGAGAGTGCCACCCGAGTTGACCTCACCAAGGCAACCCCTTGTACC  
CACAGAATCCAACAGGAAGTAGGGGGAGAACAGGCCGGCCTGTGCCAGAAAAAA  
AGAGGGGAGGGAGAACAGGGGTGCTCAGCCTACCAACCGGGCAGGTCCCAGATAACA  
CTGCAGATAACCAAATGTTAATCACCCATTAGCACAGGCCAGAGCAAAAGGGAAA  
GTGATTAGGTGTATAATGGGGTCACTGGCAGGAGCAGTGGCTTGAGCTTCAA  
GATAAGAGGTTTCAGGTTAACAGCACCCGTGGTGTGGATAAGGAAGCTAA  
CACAGGGTCTGAAGCAAGATC\_3' (-1)

Figure 20